

I CLAIM:

1. A method for manufacturing color plates, said method comprising:

5 providing a mold device having spaced upper and bottom panels, and a gasket disposed between outer peripheral portions of said panels, to form a chamber between said panels and said gasket,

disengaging a portion of said gasket from said panels, to form an opening between said panels,

10 filling a solution into said chamber of said mold device via said opening of said mold device, said solution including resin material and polyvinyl chloride,

filling additive materials into said chamber of said mold device via said opening of said mold device, and distributed
15 within said solution,

engaging said portion of said gasket into said panels, to enclose said opening of said mold device,

removing air from said additive materials and said solution and from said mold device,

20 preheating said mold device to harden said additive materials and said solution into a prototype, and to stably maintain said additive materials in position within said solution, and

heating said mold device and said prototype to form said color plate.

25 2. The method as claimed in claim 1 further comprising, after engaging said portion of said gasket into said panels, horizontally disposing said mold device within a pressing machine to allow

said additive materials to be maintained in position relative to said solution, and compressing said mold device with said pressing machine to remove the air from said additive materials and said solution and from said mold device.

5 3. The method as claimed in claim 2 further comprising, before compressing said mold device with said pressing machine, engaging at least one pin into said upper panel and said gasket, to form at least one air passage between said upper panel and said gasket, and to allow the air to flow and to be removed from said
10 additive materials and said solution and from said mold device via said at least one air passage between said upper panel and said gasket.

 4. The method as claimed in claim 3 further comprising disengaging said at least one pin from said upper panel and said
15 gasket, to seal to said at least one air passage between said upper panel and said gasket, after the air has been removed from said additive materials and said solution and said mold device.

 5. The method as claimed in claim 1 further comprising, before preheating said mold device to harden said additive
20 materials and said solution into said prototype, providing a hot water bath, and engaging said mold device into said hot water bath which preheats said mold device to harden said additive materials and said solution into said prototype.

 6. The method as claimed in claim 1 further comprising
25 applying at least one pattern onto said color plate.

 7. The method as claimed in claim 6 further comprising applying a polymer outer covering onto said color plate to form a

plate product.

8. The method as claimed in claim 7 further comprising heating said polymer outer covering and said color plate, to melt and secure said polymer outer covering and said color plate
5 together and to form said plate product.

9. The method as claimed in claim 7 further comprising disposing said color plate in a mold device, and applying said polymer outer covering onto an outer peripheral portion of said color plate to form said plate product.

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